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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION IX LABORATORY
1337 S. 46TH STREET
BLDG. 201
RICHMOND, CA 94804-4698**

DEC 20 2002

MEMORANDUM

SUBJECT: Case R03S08
Results for Perchlorate Analysis

FROM: Brenda Bettencourt, Director *B. Bettencourt*
EPA Region 9 Laboratory (PMD-2)

TO: Nancy Riveland-Har, Remedial Project Manager
Site Cleanup Section 4 (SFD-7-4)

Attached are the report narrative and results spreadsheet from analysis of samples from the Omega Chemical Superfund site. These data have been reviewed in accordance with EPA Region 9 Laboratory policy. Summary information for the data included in this report is as follows:

SITE/PROJECT:	Omega Chemical
CASE:	R03S08
LABORATORY:	U. S. EPA Region 9 Laboratory
SAMPLE DELIVERY GROUPS:	02330B
ANALYSES:	Perchlorate (EPA method 314.0)

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions please contact Rich Bauer at (510) 412-2312, or Ken Hendrix at (510) 412-2321.

ATTACHMENT: Analytical Report

USEPA REGION 9 LABORATORY
REPORT NARRATIVE

CASE NUMBER:	R03S08
SAMPLE DELIVERY GROUP:	02330B
PROGRAM:	SUPERFUND
DOCUMENT CONTROL #:	B0101145-2220
DATE:	12/10/02
ANALYSIS:	Perchlorate
SAMPLE NUMBERS:	

<u>SAMPLE ID</u>	<u>LABORATORY SAMPLE ID</u>
GW402-OW8-0075	AB37828
GW402-OW4A-0073	AB37829
GW402-OW4B-0125	AB37830
GW402-OW6-0048	AB37831

GENERAL COMMENTS

Four water samples were received from the Omega Chemical Superfund project on 11/26/02 and 11/27/02.

The requested analysis was perchlorate by Region 9 Laboratory SOP #531 (EPA Method 314.0). All perchlorate analyses were performed within the 28-day holding time.

SAMPLE RECEIPT AND PRESERVATION

No shipping or preservation issues were encountered.

QC COMMENTS

No perchlorate was detected in the LRB associated with this sample delivery group.

The LFM and LFM duplicate recoveries for perchlorate were within the 80-120% QC limits.

The relative percent difference (RPD) between the LFM and LFM duplicate for perchlorate was within the 15% QC limit.

The perchlorate LFB recovery was within the 85-115% QC limits.

Questions concerning the data can be answered by Osell Salvador at (510) 412-2358.

GLOSSARY

Laboratory Reagent Blanks (LRB)

A laboratory reagent blank is laboratory reagent water or baked sand with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. The laboratory reagent blank is used to determine the level of contamination introduced by the laboratory during analysis.

Laboratory Fortified Matrix (LFM), Laboratory Fortified Matrix Duplicate (LFMD) and Laboratory Duplicate (LD) Analysis

The laboratory fortified matrix spike sample and laboratory duplicate analyses provide information about the effect of the sample matrix on sample preparation and measurement. Poor percent recovery (%R) results and large relative percent difference (RPD) between duplicates may indicate inconsistent laboratory technique, sample nonhomogeneity in soils, or matrix effects which may interfere with analysis.

Laboratory Fortified Blank (LFB) Analysis

The laboratory fortified blank is laboratory reagent water or baked sand with a known concentration of the analytes of interest added by the laboratory with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. Poor percent recovery (%R) results may indicate inconsistent laboratory technique.

**EPA Region 9 Laboratory - Richmond, CA
SUMMARY OF ANALYTICAL RESULTS**

Site: Omega Chemical
Case: R03S08
SDG: 02330B
Date: 12/10/02
Analysis: Perchlorate
Matrix: Water

Sample No.			GW402-OW8-0075			GW402-OW4A-0073			GW402-OW4B-0125			GW402-OW6-0048		
Lab Sample I.D.			AB37828			AB37829			AB37830			AB37831		
Collection Date			11/25/02			11/26/02			11/26/02			11/26/02		
Units			ug/L			ug/L			ug/L			ug/L		
Analyte	CAS #	EPA Method	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com
Perchlorate		314.0	3			2			3			2	U	

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - Parameter analyzed, but not detected; associated value is quantitation limit, adjusted for dilution.

J - The associated value is an estimated quantity.

The results are reported in ug/L.

**EPA Region 9 Laboratory - Richmond, CA
SUMMARY OF ANALYTICAL RESULTS**

Site: Omega Chemical
Case: R03S08
SDG: 02330B
Date: 12/10/02
Analysis: Perchlorate
Matrix: Water

Sample No. Lab Sample I.D. Collection Date Units			Filtered Reagent Blank N/A ug/L			Method QL ug/L
Analyte	CAS #	EPA Method	Result	Q	Com	QL
Perchlorate		314.0	2 U			

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